

GP/3737.  
PATENTCase Docket No. IMAGE.011A  
Date: October 24, 2002

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

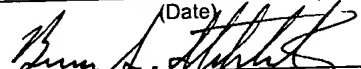
Applicant : Ben A. Arnold  
Appl. No. : 09/989,995  
Filed : November 21, 2001  
For : HYBRID CALIBRATION OF  
TISSUE DENSITIES IN  
COMPUTERIZED  
TOMOGRAPHY  
Examiner : Unknown  
Group Art Unit : 3737

## CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: United States Patent and Trademark Office, P.O. Box 2327, Arlington, VA 22202, on

October 24, 2002

(Date)

  
Bruce S. Itchkawitz, Reg. No. 47,677

## TRANSMITTAL LETTER

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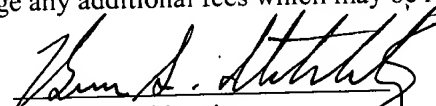
Dear Sir:

Applicant is enclosing the following documents to be filed in the above-identified application:

- (X) A Supplemental Information Disclosure Statement;
- (X) A PTO Form 1449 with copies of twenty-eight (28) references cited therein; and
- (X) A Preliminary Amendment in one page.

Applicant is also enclosing a return prepaid postcard to be stamped with the date of receipt and mailed to the undersigned attorney of record.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

  
Bruce S. Itchkawitz  
Registration No. 47,677  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404

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PATENT

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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Dear Sir:

Applicant is enclosing form PTO-1449, which lists twenty-eight (28) references that are also enclosed. This Supplemental Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 10/24/02

By:

Bruce S. Itchkawitz  
Registration No. 47,677  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404

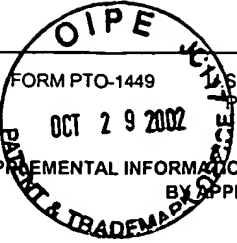
FORM PTO-1449 OCT 29 2002 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. IMAGE.011A	APPLICATION NO. 09/989,995
	APPLICANT Ben A. Arnold		
	FILING DATE November 21, 2001	GROUP 3737	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	5,034,969	07/23/91	Ozaki			
	2	5,056,130	10/08/91	Engel			
	3	5,521,955	05/28/96	Gohn et al.			
	4	5,757,877	05/26/98	Wilting			
	5	5,774,519	06/30/98	Lindstrom et al.			
	6	5,949,842	09/07/99	Schafer et al.			
	7	5,953,444	09/14/99	Joseph et al.			
	8	6,026,142	02/15/00	Guezic et al.			
	9	6,127,669	10/03/00	Sidiropoulos et al.			
	10	6,226,350 B1	05/01/01	Hsieh			
	11	6,233,304 B1	05/15/01	Hu et al.			
	12	6,278,761 B1	08/21/01	Kim et al.			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
13	One-page abstract of: W.G. Schmitt et al., <i>Attenuation values of normal and pathological liver tissue as a basis for computer tomographic densitometry of fatty livers (author's transl.)</i> , <u>ROFO Fortschr Geb Rontgenstr Nuklearned</u> , (Article in German), Vol. 129, No. 5, November 1978, pp. 555-559.
14	One-page abstract of: K.H. Hubener et al., <i>Computer tomographic densitometry of human blood. The effect of absorption by parenchymatous organs and effusions (author's transl.)</i> , <u>ROFO Fortschr Geb Rontgenstr Nuklearned</u> , (Article in German), Vol. 130, No. 2, February 1979, pp. 185-188.
15	Christopher E. Cann, Ph.D., <i>Low Dose CT Scanning for Quantitative Spinal Mineral Analysis</i> , <u>Radiology</u> , Vol. 140, No. 3, September 1981, pp. 813-815.
16	Clifford Levi et al., <i>The Unreliability of CT Numbers as Absolute Values</i> , <u>AJR</u> :139, September 1982, pp. 443-447.
17	One-page abstract of: K.S. Chuang et al., <i>Evaluation of inherent gray-level dynamic range in a digital image using the runs test and join-count statistics</i> , <u>Medical Physics</u> , Vol. 20, No. 5, January-February 1993, pp. 39-45.
18	One-page abstract of: E. Di Giandomenico et al., <i>Quantitative evaluation of blood in vivo with computed tomography</i> , <u>Radiol. Med (Torino)</u> , (Article in Italian), Vol. 85, No. 4, April 1993, pp. 416-420.
19	Judd E. Reed et al., <i>System for Quantitative Analysis of Coronary Calcification via Electron Beam Computed Tomography</i> , <u>Medical Imaging 1994, Physiology and Function from Multidimensional Images</u> , <u>SPIE</u> , Vol. 2168, February 13-14, 1994, pp. 43-53.

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

 <p>FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(USE SEVERAL SHEETS IF NECESSARY)</p>	ATTY. DOCKET NO. IMAGE.011A	APPLICATION NO. 09/989,995
	APPLICANT Ben A. Arnold	
	FILING DATE November 21, 2001	GROUP 3737

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
20	Cynthia H. McCollough, Ph.D. et al., <i>Electron-Beam CT: Use of a Calibration Phantom to Reduce Variability in Calcium Quantitation</i> , <u>Radiology</u> 1995, Vol. 196, No. 1, July 1995, pp. 159-165.
21	One-page abstract of: G.J. Kemerink et al., <i>Scanner conformity in CT densitometry of the lungs</i> , <u>Radiology</u> , Vol. 197, No. 3, December 1995, pp. 749-752.
22	One-page abstract of: P. Bhattacharya et al., <i>A new edge detector for gray volumetric data</i> , <u>Comput. Biol. Med.</u> , Vol. 26, No. 4, July 1996, pp. 315-328.
23	One-page abstract of: H.C. Yoon et al., <i>Coronary artery calcium: alternate methods for accurate and reproducible quantitation</i> , <u>Acad. Radiol.</u> , Vol. 4, No. 10, October 1997, pp. 666-673.
24	One-page abstract of: L.E. Greaser, 3 <sup>rd</sup> et al., <i>Electron-beam CT: the effect of using a correction function on coronary artery calcium quantitation</i> , <u>Acad. Radiol.</u> , Vol. 6, No. 1, January 1999, pp. 40-48.
25	One-page abstract of: B.C. Stoel et al., <i>Sources of error in lung densitometry with CT</i> , <u>Invest. Radiol.</u> , Vol. 34, No. 4, April 1999, pp. 303-309.
26	Geoffrey Dougherty et al., <i>Measurement of thickness and density of thin structures by computed tomography: A simulation study</i> , <u>Medical Physics</u> , Vol. 26, No. 7, July 1999, pp. 1341-1348.
27	Jiang Hsieh et al., <i>An iterative approach to the beam hardening correction in cone beam CT</i> , <u>Medical Physics</u> , Vol. 27, No. 1, January 2000, pp. 23-29.
28	Matthew S. Brown et al., <i>Knowledge-based segmentation of thoracic computed tomography images for assessment of split lung function</i> , <u>Medical Physics</u> , Vol. 27, No. 3, March 2000, pp. 592-598.

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